

What is claimed is:

1. A method of creating pouches from a continuously moving elongate sealable web, said web including opposed sheets each having first and second side edges, said method
5 comprising the steps of:
 - (a) longitudinally sealing the web along at least one side edge;
 - (b) providing first and second jaw carrying members defining a sealing path
10 therebetween, the jaw carrying members including a plurality of cooperating pairs of mating jaws traveling at substantially the same velocity as the web along the sealing path, wherein at least one of the jaw carrying members comprises a flexible non-circular conveyor; and
 - (c) forming a plurality of transverse seals in the web as the web travels along the
15 sealing path by clamping the web between a pair of mating jaws and bonding the sheets by heating the web.
2. A method as defined in claim 1, wherein at least one of the conveyors is flexible and
20 has a non-circular path of travel.
3. A method as defined in claim 1, wherein each conveyor includes a plurality of jaws.
4. A method as defined in claim 3, wherein at least two pairs of mating jaws engage the
25 web along the sealing path simultaneously.
5. A method as defined in claim 1, wherein the web includes a heat sealable layer, and heat is applied to the web along at least a portion of the sealing path.

6. A method as defined in claim 1, wherein the sealing path is planar.
7. A method as defined in claim 1, wherein the sealing path is arcuate.
- 5 8. A method as defined in claim 1, further comprising the step of filling a partially formed pouch after formation of the longitudinal seal and at least one transverse seal forming the bottom of the pouch.
- 10 9. A method as defined in claim 1, wherein the pouch is filled with liquid.
10. A method as defined in claim 9, wherein the liquid is a reactive monomer mixture comprising a monomer and an initiator.
- 15 11. A method as defined in claim 10, wherein the web is an unsupported thermoplastic web.
12. A method as defined in claim 11, wherein the web is sealed using impulse heating.
- 20 13. A method as defined in claim 1, wherein the web is a supported web.
14. A method as defined in claim 1, wherein the web comprises two individual sheets of material.
- 25 15. A method as defined in claim 1, wherein the web comprises a single folded sheet of material.

16. A method as defined in claim 1, wherein the web travels at a generally constant velocity.

17. A pouch made according to the method of claim 1.

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18. A method as defined in claim 1, wherein one of the jaw carrying members comprises a drum carrying a plurality of jaws.

10 19. A method of creating pouches from a continuously moving elongate sealable web, said web including opposed sheets each having first and second side edges, said method comprising the steps of:

(a) longitudinally sealing the web along at least one side edge;

15 (b) providing a pair of cooperating conveyors defining a sealing path between the conveyors, the conveyors including at least one pair of cooperating mating jaws traveling at substantially the same velocity as the web; and

20 (c) forming a plurality of transverse seals in the web by engaging the web between a pair of mating jaws along at least a portion of the sealing path to bond the two opposed sheets along an interface.

20. An apparatus for creating pouches from a continuously moving elongate sealable web, said web including opposed sheets each having first and second side edges, comprising:

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(a) a first sealing station arranged to form a longitudinal seal along at least one side edge of the web, thereby to seal said edge; and

(b) a second sealing station arranged to form a plurality of transverse seals in the web, said second sealing station including opposed conveyors defining a sealing path between the conveyors, the conveyors including at least one pair of cooperating mating jaws arranged to engage opposite side surfaces of the web along the sealing path.

21. An apparatus as defined in claim 20, wherein at least one of said conveyors is flexible and has a non-circular path of travel.

22. An apparatus as defined in claim 20, wherein each conveyor includes a plurality of jaws that cooperate with the jaws on the other conveyor to form mating pairs of jaws.

23. An apparatus as defined in claim 22, wherein the jaws include sealing means.

24. An apparatus as defined in claim 20, wherein said conveyors remain in a fixed position relative to each other and relative to the moving web.

25. An apparatus as defined in claim 20, further comprising a fill tube arranged to inject a liquid into the pouches after the formation of at least one transverse seal defining the bottom of a pouch and before the formation of the transverse seal defining the top of the pouch.

26. An apparatus for producing a transverse seal in a web, comprising a pair of opposed conveyors defining a sealing path between the conveyors, said conveyors including at least one pair of cooperating mating jaws arranged to engage opposite side surfaces of the web along the sealing path.